SOFTWARE RELEASE NOTICE

SYSTEM: Automated Tracking Station (ATS) **RELEASE: 3.3.1**

DATE: October 14, 2000

MODIFICATION DESCRIPTION:

(1) Fix the intermittent and unpredictable annoying halt of the ATS scheduler process prior to initialization.
(2) Fix the FTP automation of the schedules delivered from ATS to the Data Stripper Controller node.

Discrepancy Reports (DRs) Resolved:

CDSID#00017246, CDSID#00017253, CDSID#00017205, CDSID#00017204, CDSID#00017202, CDSID#00017159, CDS ID # 00017290

EPGN Configuration Control Requests (CCRs) Resolved:

None

Software Request-for-Supports (RFSs) Resolved:

(1) Lien List Item #39 - Resolve Problem with ATS initialization/takedown.

FILES AFFECTED:

ATS 3.3.1 source code is a patch to ATS 3.3. It is archived on a server located at Scientific-Atlanta, Inc. in Atlanta, Georgia. Source code configuration control is monitored by *Microsoft Visual Source Safe* and managed by ViaSat Satellite Networks, Inc. personnel. The procedures for building and distributing an ATS release are documented in *Automated Tracking Station (ATS): Source Code Configuration Control Procedures* created in June 2000 and available for distribution by contacting Edward Payne at NASA/WFF (757-824-1104).

Four ATS projects were re-built using the Microsoft Visual C++ compiler installed with Microsoft Developer 5.0 and service pack 6. These project builds include Master applications:

C:\Master\Scheduler.exe
C:\Master\MonitorAndControl.exe
C:\Master\DSCInterface.exe
C:\Master\PassResultsCompiler.exe

VALIDATION PROCEDURES:

Immediate installation is recommended to replace the four executables. Validation of the ATS bug fixes will occur over continued operational use and regression testing.

KNOWN BUGS OR LIMITATIONS:

This ATS patch does not include software development or fixes for:
(1) ATS device heartbeat status polling (RFS 99-048) during down-time between supports.
(2) Automation of the Aydin BPSK Demodulator Model 3329 (MGS DR 99-014).
(3) Automatic loading of profiles on demand for pre-pass tests.
(4) MetrumBVLDS tape graphical user interface lock-ups (MGS DRs 98-126, 99-054, 99-093).

INSTALLATION/ACTIVATION PROCEDURE:

ATS 3.3.1 is composed of four applications for installation on Master PCs only. Installation and delivery will be coordinated between ViaSat software engineers, WFF scheduling and ground station operations.

A 30-minuter Master downtime period is required for file delivery to each ground station. The four ATS modules will be installed over the ATS 3.3 applications. File delivery will be initiated from WGS and be the responsibility of the ATS software development group. Some assistance from the ground station operations personnel is required in order to facilitate the delivery**. Installation and delivery does not activate the ATS software.**

OPERATIONAL IMPLICATIONS:
ATS operation includes display of an "*Operational Schedule*" window. This window includes all ATS scheduled supports. Each record includes a "*Status*" field which changes from *Initializing -> Setup -> In Progress -> Complete -> Takedown/Reporting* during any support. This window will update only during the *Initialization* state and after the *PassResultsCompiler* reporting application has started.

HARDWARE REQUIREMENTS:

Master/Node PCs (no changes)

- Minimum Pentium-200 MHz for Master and Nodes.
- Minimum 128megabytes RAM
- 2 Gigabyte system drive
- Windows NT 4.0 (service pack 6)
- Devices connected to Node PCs via RS-232 port (and, in some cases an IEEE converter) on a Digibox. A Hewlett-Packard workstation (HP-UX 10.2) functions as an 11meter antenna control console.

COMMENTS:

Points of contact for ATS release 3.3 are David L. Davis/NASA (757-824-1444) and Edward Payne/CSOC/GHG (757-824-1104).

APPROVAL:

The software modifications described in this release notice has been validated and accepted.

_____ _____
NASA EPGN Project Manager Date

_____ _____
NASA AWOTS/WGS Project Manager Date

SOFTWARE RELEASED:

The software modifications described in this release notice has been completed and released to ground station operations.

_____ _____
System Manager Date

_____ _____
NASA Program Monitor Date